

IN THE CLAIMS:

The text of all pending claims are set forth below. Cancelled and withdrawn claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (previously amended), (cancelled), (withdrawn), (new), (previously added), (reinstated - formerly claim #), (previously reinstated), (re-presented - formerly dependent claim #) or, (previously re-presented).

Please CANCEL claims 1-13 and ADD new claims 14-33 in accordance with the following:

1-13 (cancelled)

14. (new) A method for routing a connection from a first mobile station to a second mobile station by way of at least one further mobile station in a wireless communication system, comprising:

acquiring positional information on the first mobile station, the second mobile station and the further mobile station;

determining a route for the connection at a central routing device based on the positional information;

generating routing information at the routing device corresponding to the determined route; and

transmitting the routing information from the routing device to the first mobile station, the second mobile station and the further mobile station.

15. (new) The method according to Claim 14, wherein
the wireless communication system operates in conjunction with a cellular mobile wireless network having base stations,

the first, second and further mobile stations are located in wireless range of at least one base station of the cellular mobile wireless network,

the routing device transmits the routing information to the at least one base station, and
the at least one base station transmits the routing information to the first, second and further mobile stations.

16. (new) The method according to Claim 15, wherein

the mobile stations determine the positional information and transmit the routing information to the at least one base station.

17. (new) The method according to Claim 15, wherein
the mobile stations have a first operating mode in which they operate in the cellular mobile wireless network in accordance with a first wireless standard,
the mobile stations have a second operating mode in which they form an ad-hoc network with one another in accordance with a second wireless standard, and
during the connection for which the routing device determines the routing information, the mobile stations operate in the second operating mode.

18. (new) The method according to Claim 17, wherein
the mobile stations operate in the second operating mode only when the cellular mobile wireless network reaches a capacity limit.

19. (new) The method according to Claim 14, wherein
the second mobile station makes available a particular service,
service information concerning the service is stored in a storage device,
the service information is provided from the storage device to the first mobile station,
after the first mobile station receives the service information, the first mobile station signals to the routing device that the first mobile station would like to access the service, and
after being signaled by the first mobile station, the routing device establishes a service connection for the service from the first mobile station to the second mobile station by generating routing information for the service connection.

20. (new) The method according to Claim 19, wherein
the wireless communication system operates in conjunction with a cellular mobile wireless network having base stations,
the first, second and further mobile stations are located in wireless range of at least one base station of the cellular mobile wireless network,
the at least one base station broadcasts the service information stored in the storage device.

21. (new) The method according to Claim 14, wherein

the routing information describes a transmit power level with which the first, second and further mobile stations are to operate for the connection.

22. (new) The method according to Claim 14, wherein
the routing information describes transmission resources which the first, second and further mobile stations are to reserve for the connection.

23. (new) The method according to Claim 22, wherein
when the connection is to be terminated, the routing device instructs the first, second and further mobile stations to free the transmission resources used for the connection.

24. (new) The method according to Claim 16, wherein
the mobile stations have a first operating mode in which they operate in the cellular mobile wireless network in accordance with a first wireless standard,
the mobile stations have a second operating mode in which they form an ad-hoc network with one another in accordance with a second wireless standard, and
during the connection for which the routing device determines the routing information, the mobile stations operate in the second operating mode.

25. (new) The method according to Claim 24, wherein
the mobile stations operate in the second operating mode only when the cellular mobile wireless network reaches a capacity limit.

26. (new) The method according to Claim 25, wherein
the second mobile station makes available a particular service,
service information concerning the service is stored in a storage device,
the service information is provided from the storage device to the first mobile station,
after the first mobile station receives the service information, the first mobile station signals to the routing device that the first mobile station would like to access the service, and
after being signaled by the first mobile station, the routing device establishes a service connection for the service from the first mobile station to the second mobile station by generating routing information for the service connection.

27. (new) The method according to Claim 26, wherein

the at least one base station broadcasts the service information stored in the storage device.

28. (new) The method according to Claim 27, wherein
the routing information describes a transmit power level with which the first, second and further mobile stations are to operate for the connection.

29. (new) The method according to Claim 28, wherein
the routing information describes transmission resources which the first, second and further mobile stations are to reserve for the connection.

30. (new) The method according to Claim 29, wherein
when the connection is to be terminated, the routing device instructs the first, second and further mobile stations to free the transmission resources used for the connection.

31. (new) A wireless communication system, comprising:
a first mobile station, a second mobile station and at least one further mobile station;
a storage device to store positional information regarding the first mobile station, the second mobile station and the further mobile station;
a central routing device to determine a route for a connection between the first mobile station and the second mobile station via the further mobile station and to generate routing information for the route, the route being determined based on the positional information stored in the storage device; and
a transmit unit provided in the routing device to transmit the routing information to the first mobile station, the second mobile station and the further mobile station.

32. (new) A central routing device for a wireless communication system, comprising:
a route generating unit to generate a route for a connection between a first mobile station and a second mobile station by way of at least one further mobile station using positional information for the first mobile station, the second mobile station and the further mobile station;
and
a transmit unit to transmit routing information corresponding to the route, to the first mobile station, the second mobile station and the further mobile station.

33. (new) A mobile station for a wireless communication system, comprising:

a receiver to receive and evaluate connection routing information generated by a central routing device based on positional information for the mobile station, a first mobile unit and a second mobile unit; and

a transmitter to transmit data received from the first mobile unit to the second mobile unit according to the connection routing information, to thereby establish a connection between the first and second mobile units.